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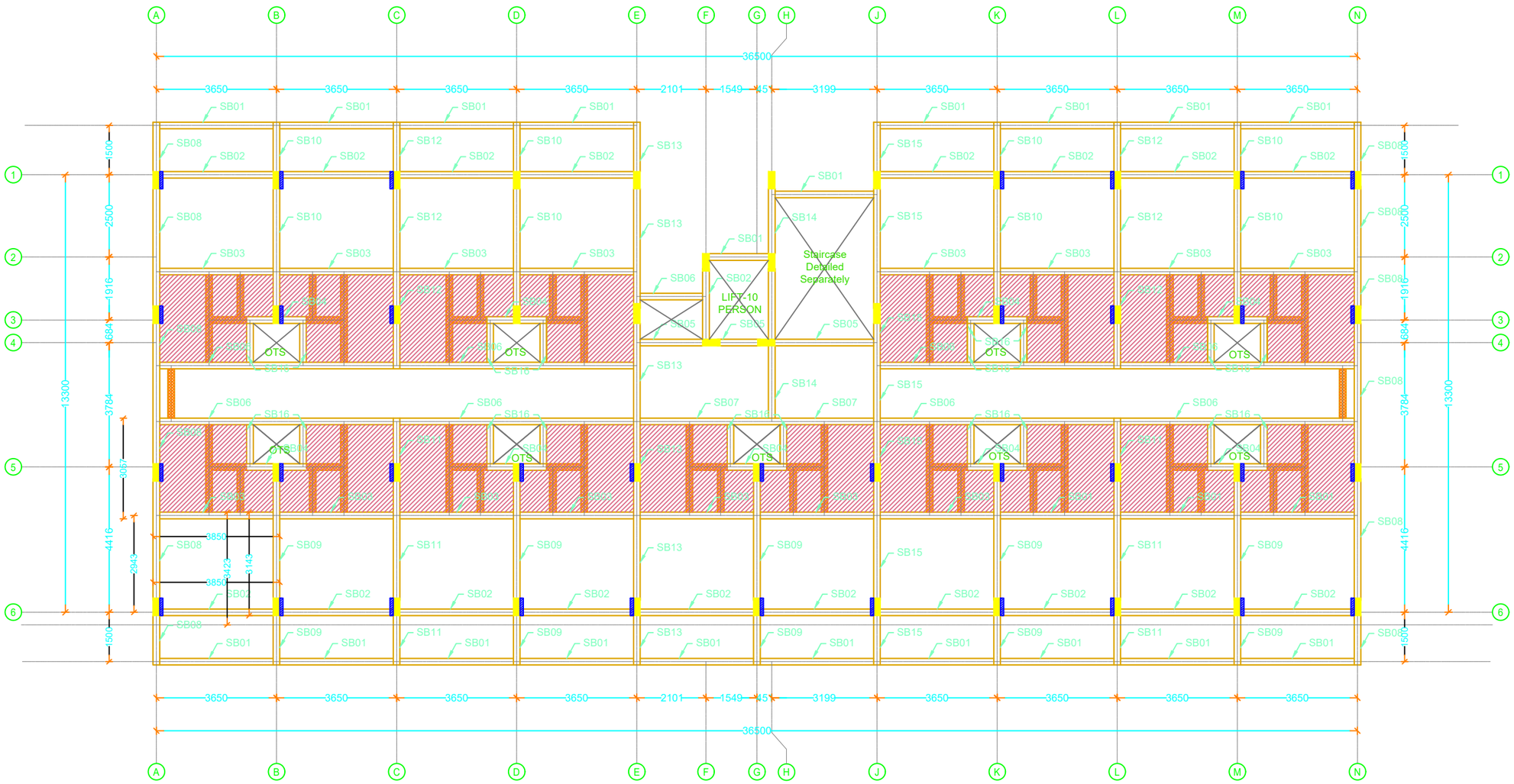
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Stilt Roof Beam Layout



— Regular Column

— Termination Column @ Stilt Floor Roof

— Sunken by 230 mm

Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Stilt Floor Roof Beam Layout

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
5. Clear cover : Footing - 50mm , Column - 32mm,
6. Beam - 32mm & Slab - 20mm.
7. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
8. Depth of foundation Should be at least 3.00m from natural ground level .
9. The centerline column should be coincide with center line of footing.
10. The bottom of plinth beam at least 0.15m below the natural ground level.
11. S.B.C of soil is taken as - 350 KN / M². (As per soil investigation report of geo matrix consultancy for material testing,madurai) .
12. The Structural members are designed for Stilt + Five Floors + Staircase Headroom + Water Tank & Lift Machine Room Only.
13. This structure analyzed & Designed for all possible dead loads & live loads only.
14. Do not scale this drawing and follow architectural drawing dimensions only.
15. No.changes shall be made without the concern of the structural consultant.
16. The position & size of duct beams, please refer architectural drawing.
17. Spacer rods (Y25) should be placed at 0.91 intervals.

Date	No	Description
		Revisions

Drawn by : J. Mohamed Malik.
Checked by : N . Aswin Nambi.

Architect:

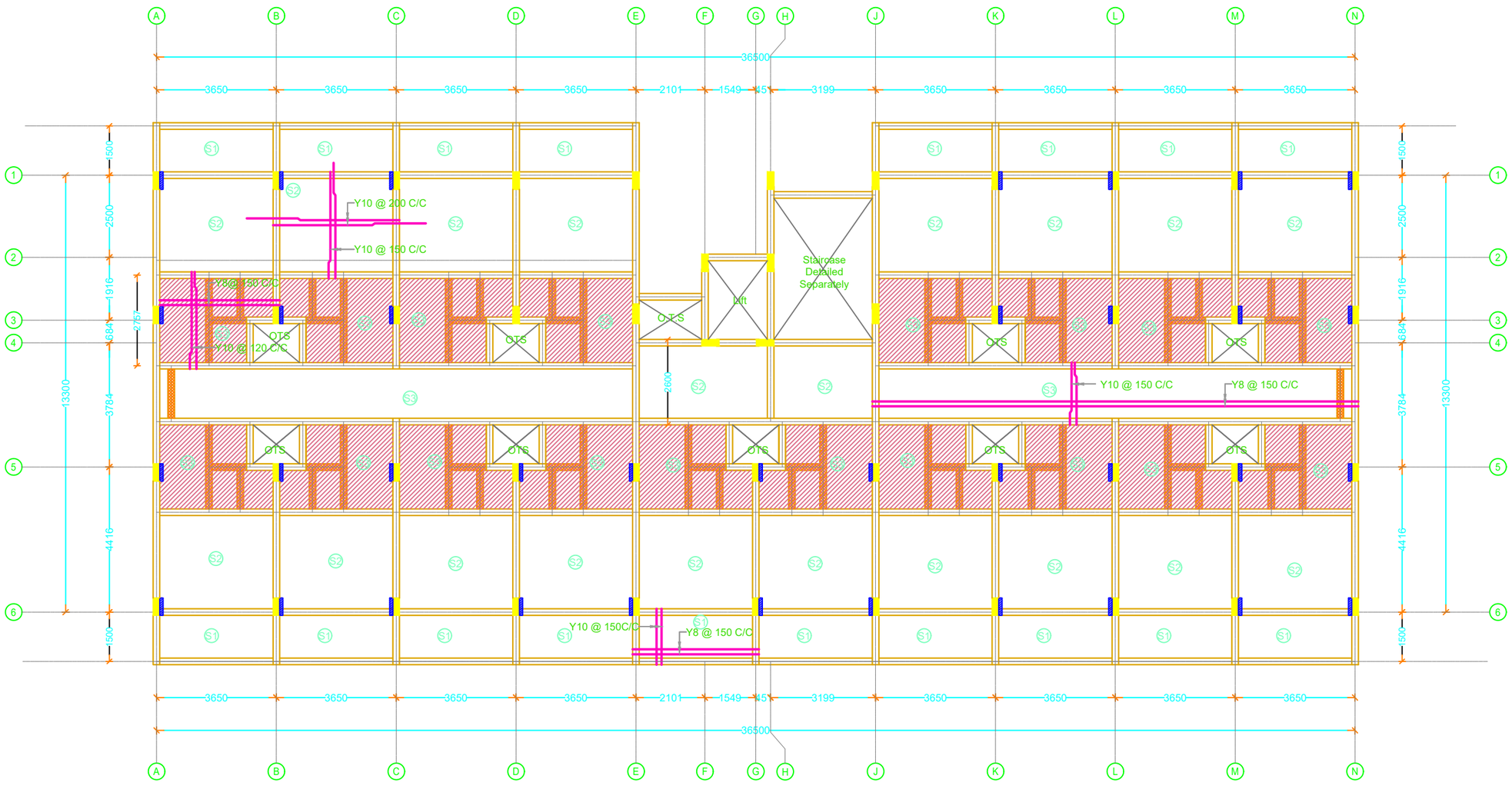
Structural Consultant :
TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED
Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
L.I.C colony,Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Drg file : E / Sebco/ Moris Inn / Column grid Layout .
Paper : A2
Scale : N.T.S

Date : 18.07.2024
Job No : 1422 (B) / 2021
Dwg No : 05

Signature of chief structural consultant:
MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
Reg. No. SE - Gr - II / DTCP / TRICHY / MAY2024 / 009
Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN, M.E (Structural Engineering).

Stilt Roof Slab Layout Slab thickness S1,S2-125 mm & S3-150 mm



— Regular Column — Termination Column @ Stilt Floor Roof — Sunken by 230 mm

Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Stilt Floor Roof Slab Layout

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
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14. Do not scale this drawing and follow architectural drawing dimensions only.
15. No.changes shall be made without the concern of the structural consultant.
16. The position & size of duct beams, please refer architectural drawing.
17. Spacer rods (Y25) should be placed at 0.91 intervals.

Date	No	Description
		Revisions

Drawn by : J. Mohamed Malik.
Checked by : N . Aswin Nambi.

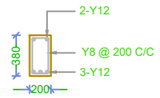
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Paper : A2 Scale : N.T.S

Architect:

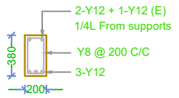
Date : 18.07.2024
Job No : 1422 (B) / 2021
Dwg No : 06

Structural Consultant :
TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED
Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
L.I.C colony,Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

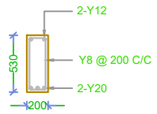
Signature of chief structural consultant:
MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
Reg. No. SE - Gr -II / DTCP / TRICHY / MAY2024 / 009
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MIRUTHUN GANESAN, M.E (Structural Engineering).



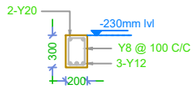
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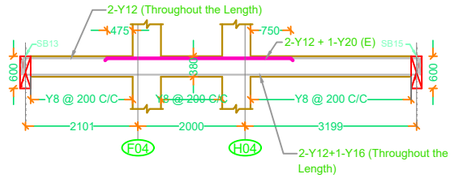
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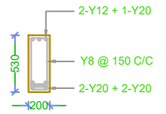
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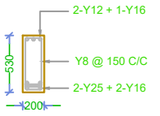
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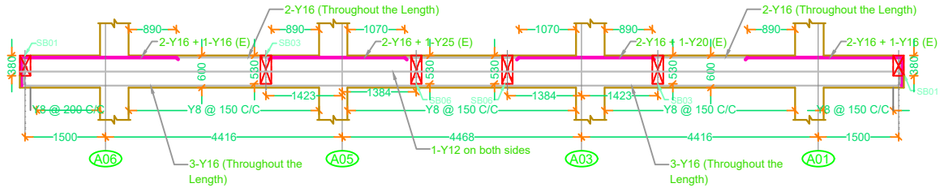
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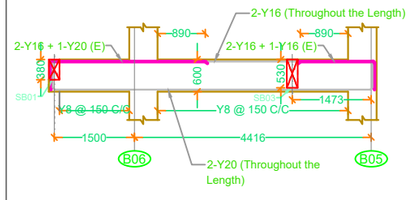
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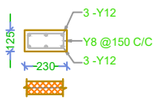
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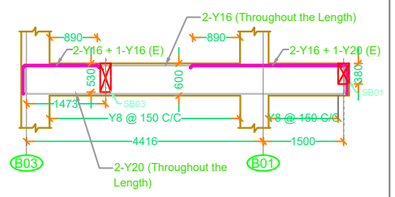
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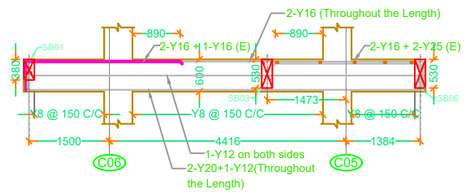
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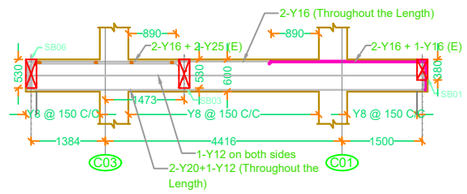
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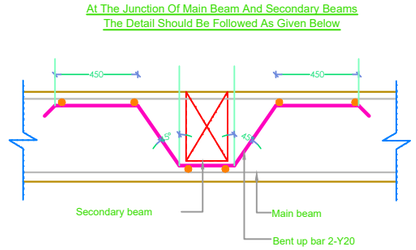
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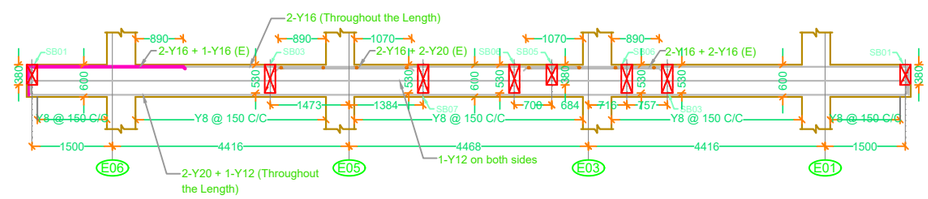


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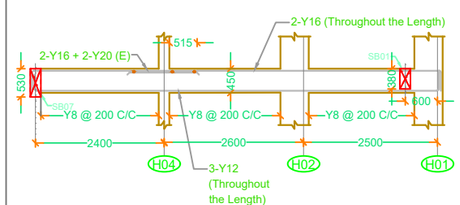


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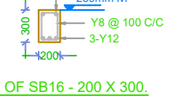




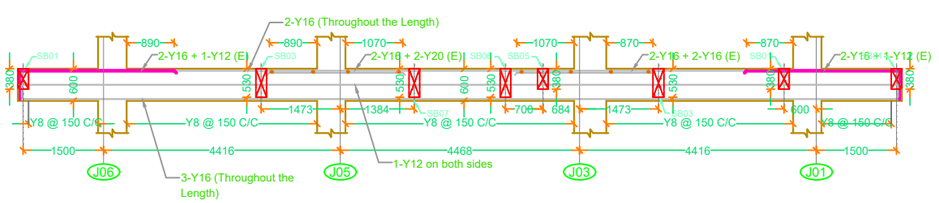
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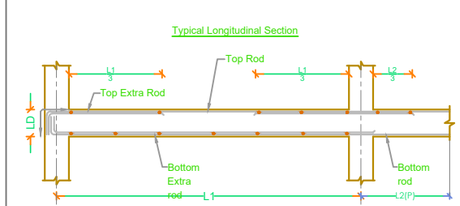
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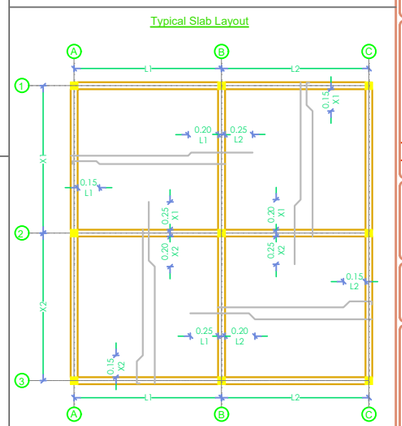


C.S OF SB16 - 200 X 300.



L.S OF BEAM SB15- 200 X 600.





Structural Details of Proposed Residential Apartment Building(Affordable Housing Project) Morais Orchid @ Trichy.

Stilt Floor Roof Beam Details.

Notes :

1. All dimensions are in Millimeter.
2. Concrete grade : M 25.
3. Steel grade : Fe 500.
   Confirming Is 1786 - 1985 To be used
4. Clear cover : Footing -50mm , Column - 32mm,
   Beam -32mm & Slab -20mm.
5. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
6. Depth of foundation should be at least 3.00m from NGL.
7. The centerline column should be coincide with center- line of footing.
8. Top Bottom of plinth beam atleast 150mm below NGL.
9. S.B.C of soil is taken as - 35T / M².As per Geo - foundations & Structures PVT Ltd,Chennai.
10. The foundation and column are designed for + Stilt + Five Floors + Lift Machine Room + Staircase Headroom & Water tank only.
11. This structure analyzed & Designed for all possible dead loads & live loads only.
12. Do not scale this drawing and follow architectural drawing dimensions only.
13. No.changes shall be made without the concern of the structural consultant.
14. The position & size of duct beams, please refer architectural drawing.
15. Spacer rods (Y25) should be placed at 3' intervals.

Drawn by : J . Mohamed Malik
Checked by : V . Aravind.

Drg file : E / Sebco/ Moris city / Foundation Details.
Paper : A2 Scale : N.T.S

Structural Consultant :

TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED

Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar, L.I.C colony,
Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Date	No	Description

Revisions

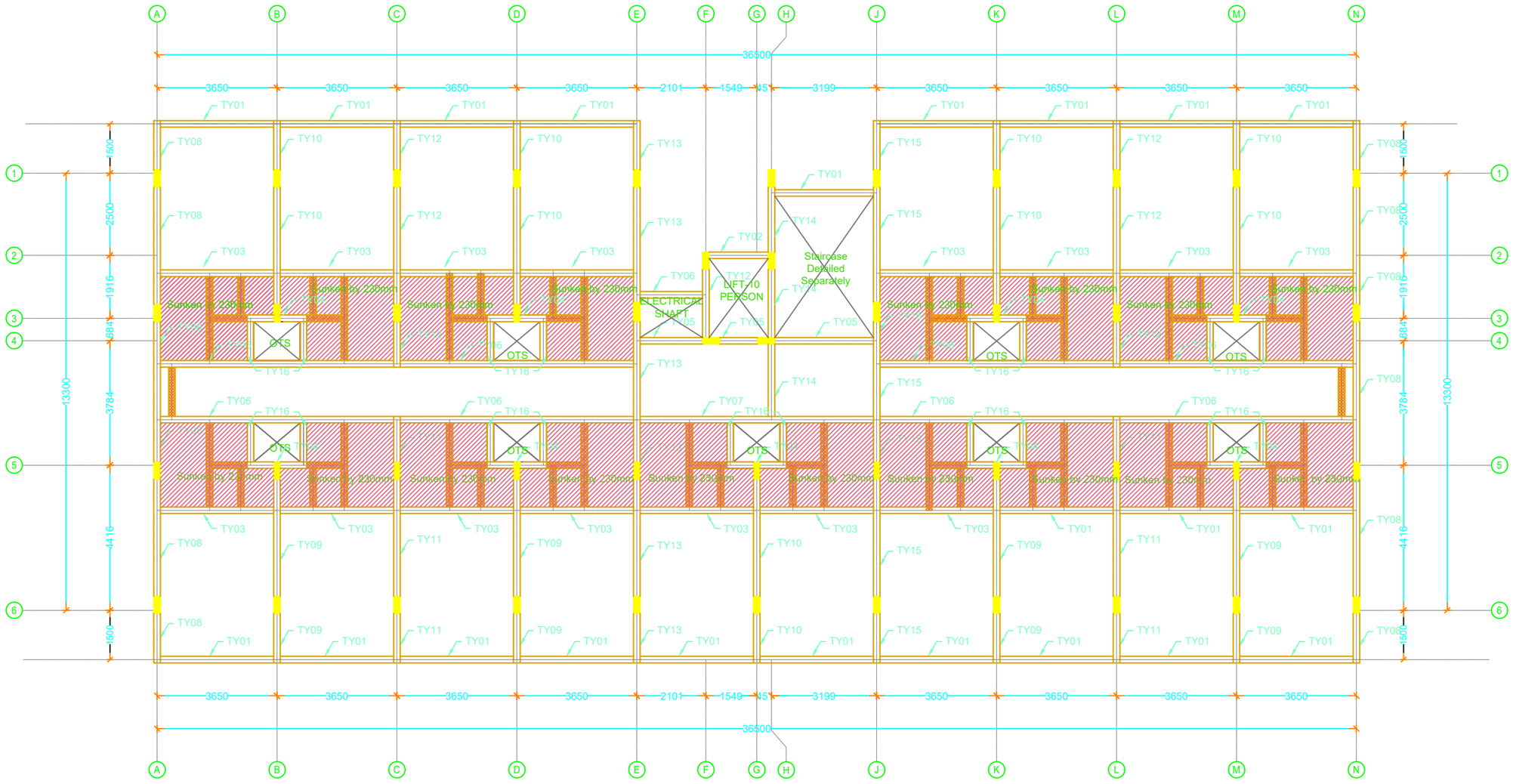
Architect:

Job No : 1714 / 2024
Dwg No : 07
Date : 18.07.2024.

Signature of chief structural consultant:

MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
Reg. No. SE - Gr - II / DTCP / TRICHY / MAY2024 / 009
Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN, M.E., (Structural Engineering).

Typical Roof Beam Layout



Regular Column — Sunken by 230 mm

Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Typical Floors(First to Fourth) Roof Beam Layout

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
5. Clear cover : Footing - 50mm , Column - 32mm,
6. Beam - 32mm & Slab - 20mm.
7. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
8. Depth of foundation Should be at least 3.00m from natural ground level .
9. The centerline column should be coincide with center line of footing.
10. The bottom of plinth beam at least 0.15m below the natural ground level.
11. S.B.C of soil is taken as - 350 KN / M². (As per soil investigation report of geo matrix consultancy for material testing,madurai) .
12. The Structural members are designed for Stilt + Five Floors + Staircase Headroom + Water Tank & Lift Machine Room Only.
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14. Do not scale this drawing and follow architectural drawing dimensions only.
15. No.changes shall be made without the concern of the structural consultant.
16. The position & size of duct beams, please refer architectural drawing.
17. Spacer rods (Y25) should be placed at 0.91 intervals.

Date	No	Description
		Revisions

Drawn by : J. Mohamed Malik.
Checked by : N . Aswin Nambi.

Drg file : E / Sebco/ Moris Inn / Column grid Layout .
Paper : A2
Scale : N.T.S

Architect:

Date : 18.07.2024
Job No : 1422 (B) / 2021
Dwg No : 08

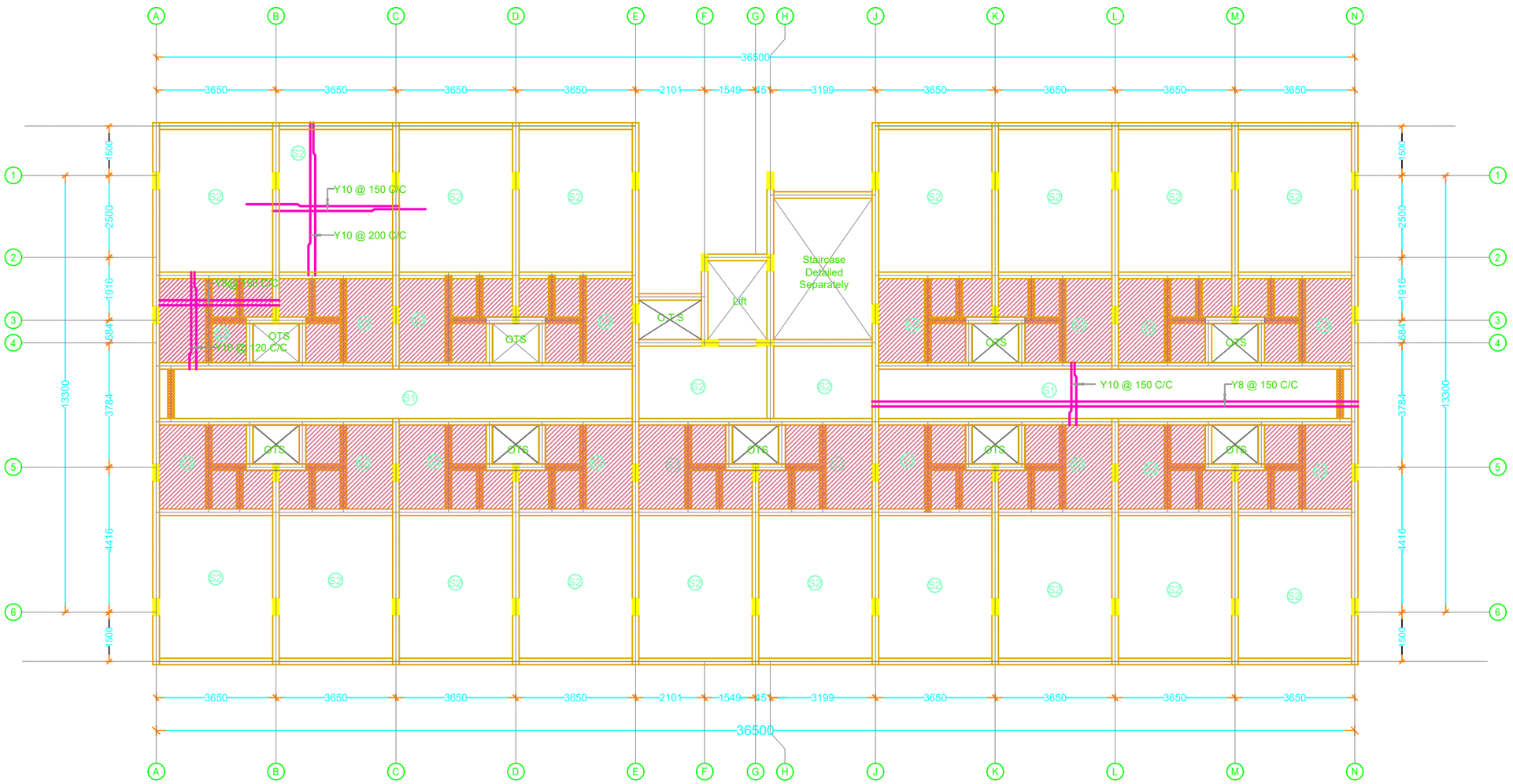
Structural Consultant :
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Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
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Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN, M.E (Structural Engineering).

Typical Roof Slab Layout

Slab thickness S1,S2-125 mm & S3-150 mm



— Regular Column

— Sunken by 230 mm

Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Typical Floors(First to Fourth) Roof Slab Layout

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
5. Clear cover : Footing - 50mm , Column - 32mm,
6. Beam - 32mm & Slab - 20mm.
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Date	No	Description
		Revisions

Drawn by : J. Mohamed Malik.
Checked by : N . Aswin Nambi.

Drg file : E / Sebco/ Moris Inn / Column grid Layout .
Paper : A2
Scale : N.T.S

Architect:

Date : 18.07.2024
Job No : 1422 (B) / 2021
Dwg No : 09

Structural Consultant :

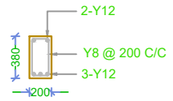
TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED

Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
L.I.C colony,Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

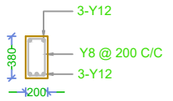
Signature of chief structural consultant:

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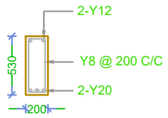
MIRUTHUN GANESAN, M.E (Structural Engineering).



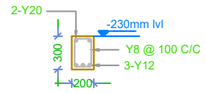
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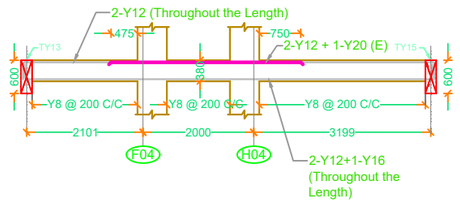
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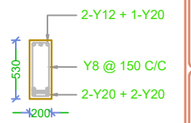
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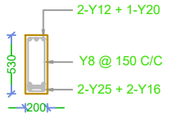
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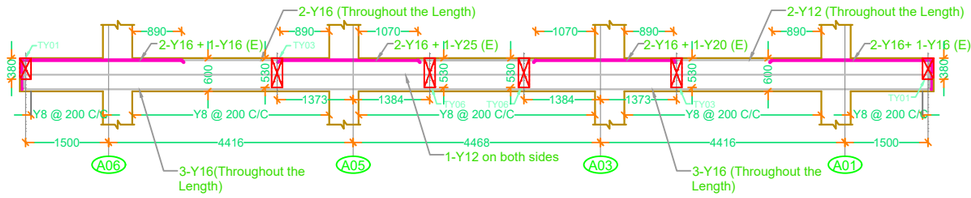
L.S OF BEAM TY05- 200 X 380.



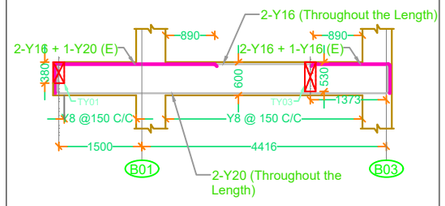
C.S OF TY06 - 200 X 530.



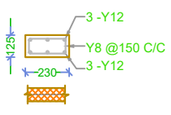
C.S OF TY07 - 200 X 530.



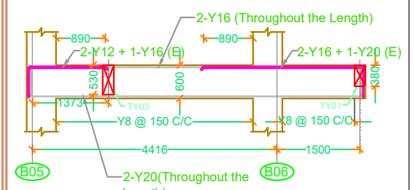
L.S OF BEAM TY08- 200 X 600.



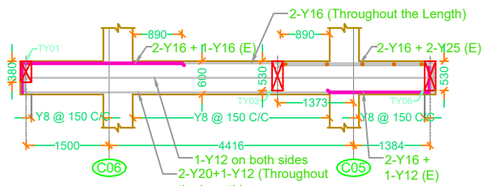
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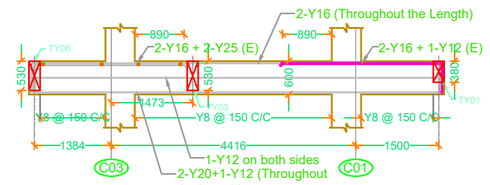
C.S OF CB1 - 230, 330 X 125



L.S OF BEAM TY10 - 200 X 600.

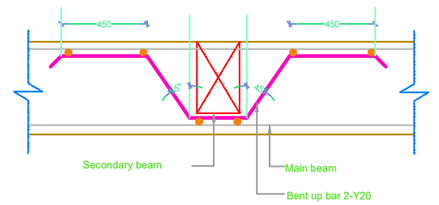


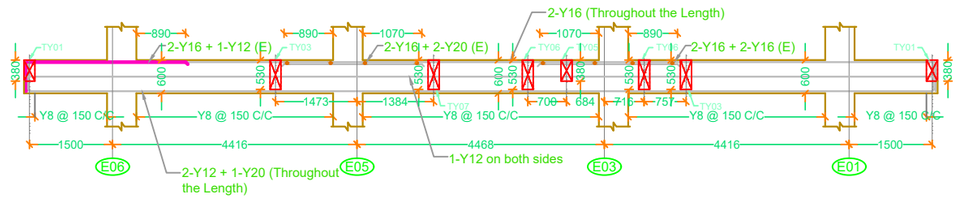
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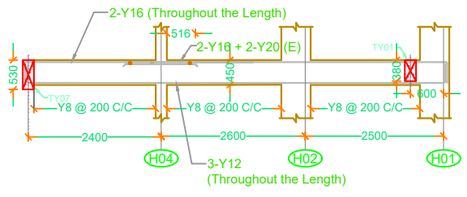
L.S OF BEAM TY12- 200 X 600.

At The Junction Of Main Beam And Secondary Beams
The Detail Should Be Followed As Given Below

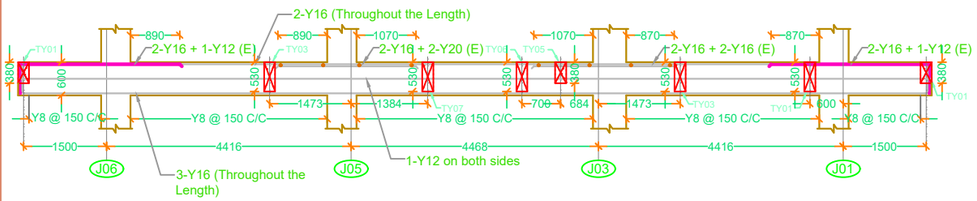




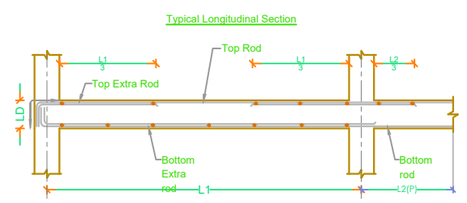
L.S OF BEAM TY13- 200 X 600.



L.S OF BEAM TY14- 200 X 450.



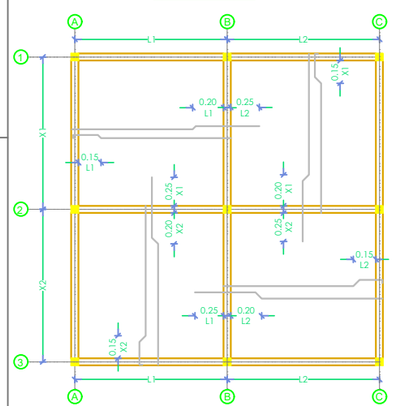
L.S OF BEAM TY15- 200 X 600.





C.S OF TY16 - 200 X 300.

Typical Slab Layout



Structural Details of Proposed Residential Apartment Building(Affordable Housing Project) Morais Orchid @ Trichy.

Typical Floors(First to Fourth) Roof Beam Details.

Notes :

1. All dimensions are in Millimeter.
2. Concrete grade : M 25.
3. Steel grade : Fe 500.
   Confirming Is 1786 - 1985 To be used
4. Clear cover : Footing -50mm , Column - 32mm,
   Beam -32mm & Slab -20mm.
5. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
6. Depth of foundation should be at least 3.00m from NGL.
7. The centerline column should be coincide with center- line of footing.
8. Top Bottom of plinth beam atleast 150mm below NGL.
9. S.B.C of soil is taken as - 35T / M².As per Geo - foundations & Structures PVT Ltd,Chennai.
10. The foundation and column are designed for + Stilt + Five Floors + Lift Machine Room + Staircase Headroom & Water tank only.
11. This structure analyzed & Designed for all possible dead loads & live loads only.
12. Do not scale this drawing and follow architectural drawing dimensions only.
13. No.changes shall be made without the concern of the structural consultant.
14. The position & size of duct beams, please refer architectural drawing.
15. Spacer rods (Y25) should be placed at 3' intervals.

Drawn by : J . Mohamed Malik
Checked by : V . Aravind.

Drg file : E / Sebco/ Moris city / Foundation Details.
Paper : A2 Scale : N.T.S

Structural Consultant :

TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED

Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar, L.I.C colony,
Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Date	No	Description

Revisions

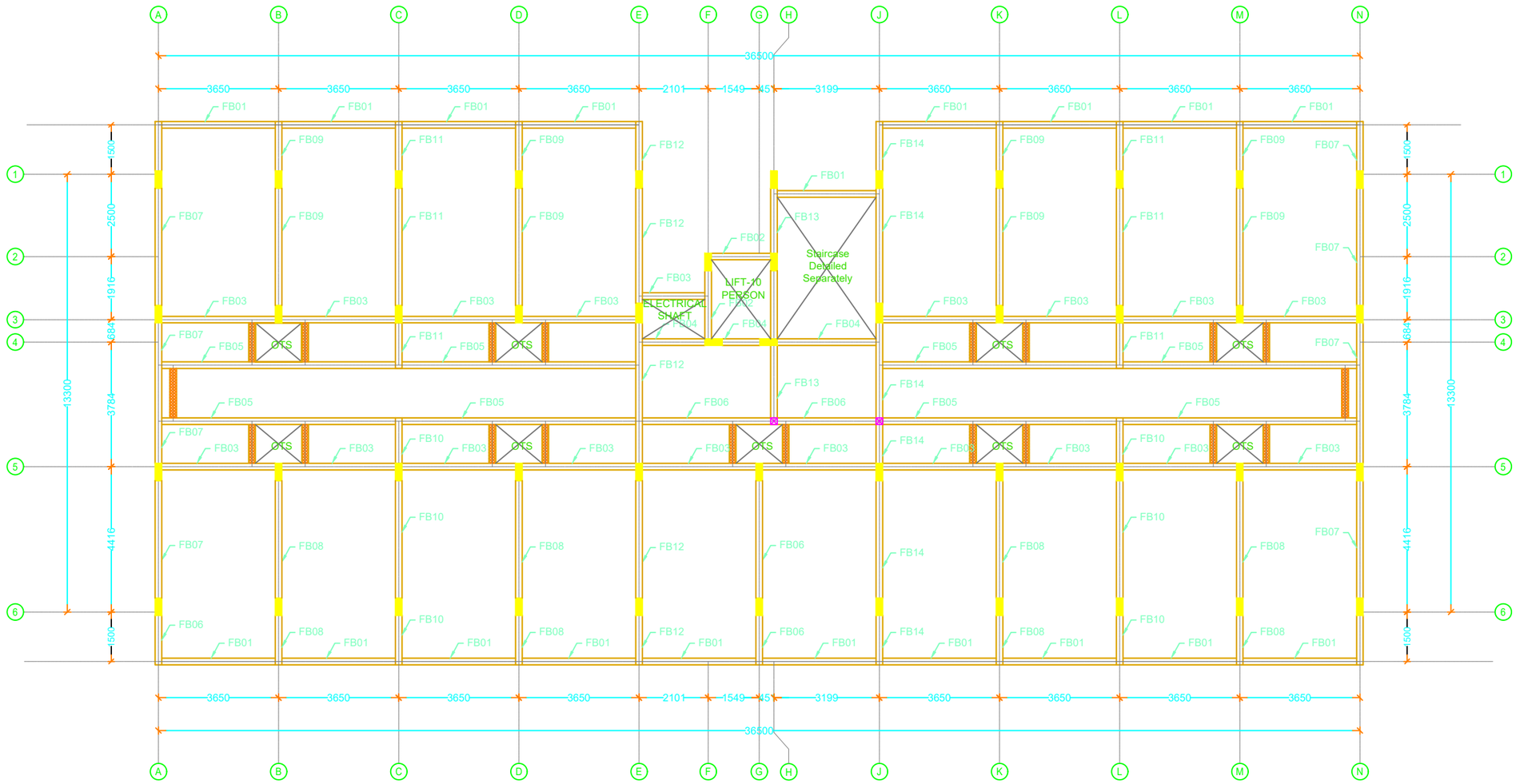
Architect:

Job No : 1714 / 2024
Dwg No : 10
Date : 18.07.2024.

Signature of chief structural consultant:

MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
Reg. No. SE - Gr -II / DTCP / TRICHY / MAY2024 / 009
Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN, M.E (Structural Engineering).

Fifth Roof Beam Layout



Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Fifth Floor Roof Beam Layout

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
5. Clear cover : Footing - 50mm , Column - 32mm,
6. Beam - 32mm & Slab - 20mm.
7. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
8. Depth of foundation Should be at least 3.00m from natural ground level .
9. The centerline column should be coincide with center line of footing.
10. The bottom of plinth beam at least 0.15m below the natural ground level.
11. S.B.C of soil is taken as - 350 KN / M². (As per soil investigation report of geo matrix consultancy for material testing,madurai) .
12. The Structural members are designed for Stilt + Five Floors + Staircase Headroom + Water Tank & Lift Machine Room Only.
13. This structure analyzed & Designed for all possible dead loads & live loads only.
14. Do not scale this drawing and follow architectural drawing dimensions only.
15. No.changes shall be made without the concern of the structural consultant.
16. The position & size of duct beams, please refer architectural drawing.
17. Spacer rods (Y25) should be placed at 0.91 intervals.

Date	No	Description
		Revisions

Drawn by : J. Mohamed Malik.
Checked by : N . Aswin Nambi.

Drg file : E / Sebco/ Moris Inn / Column grid Layout .
Paper : A2
Scale : N.T.S

Architect:

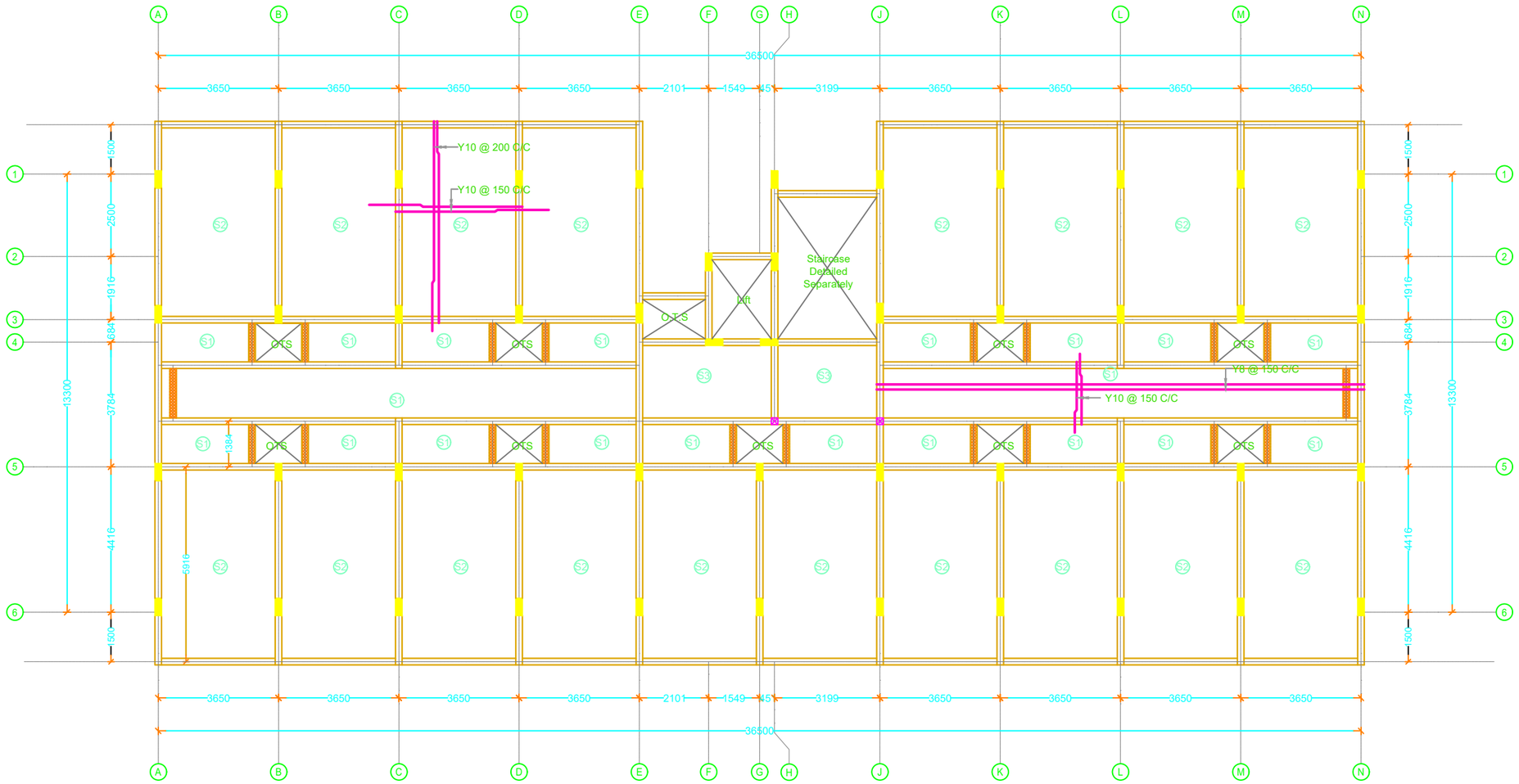
Date : 18.07.2024
Job No : 1422 (B) / 2021
Dwg No : 11

Structural Consultant :
TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED
Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
L.I.C colony,Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Signature of chief structural consultant:
MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - TI
Reg. No. SE - Gr -II / DTCP / TRICHY / MAY2024 / 009
Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN, M.E (Structural Engineering).

Fifth Roof Slab Layout

Slab thickness-125 mm.



Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Fifth Floor Roof Slab Layout

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
5. Clear cover : Footing - 50mm , Column - 32mm,
6. Beam - 32mm & Slab - 20mm.
7. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
8. Depth of foundation Should be at least 3.00m from natural ground level .
9. The centerline column should be coincide with center line of footing.
10. The bottom of plinth beam at least 0.15m below the natural ground level.
11. S.B.C of soil is taken as - 350 KN / M². (As per soil investigation report of geo matrix consultancy for material testing,madurai) .
12. The Structural members are designed for Stilt + Five Floors + Staircase Headroom + Water Tank & Lift Machine Room Only.
13. This structure analyzed & Designed for all possible dead loads & live loads only.
14. Do not scale this drawing and follow architectural drawing dimensions only.
15. No.changes shall be made without the concern of the structural consultant.
16. The position & size of duct beams, please refer architectural drawing.
17. Spacer rods (Y25) should be placed at 0.91 intervals.

Date	No	Description
		Revisions

Drawn by : J. Mohamed Malik.
Checked by : N . Aswin Nambi.

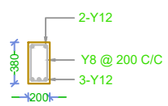
Architect:

Structural Consultant :
TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED
Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
L.I.C colony,Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

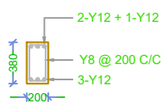
Drg file : E / Sebco/ Moris Inn / Column grid Layout .
Paper : A2
Scale : N.T.S

Date : 18.07.2024
Job No : 1422 (B) / 2021
Dwg No : 12

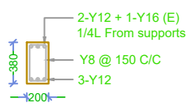
Signature of chief structural consultant:
MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
Reg. No. SE - Gr -II / DTCP / TRICHY / MAY2024 / 009
Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN, M.E (Structural Engineering).



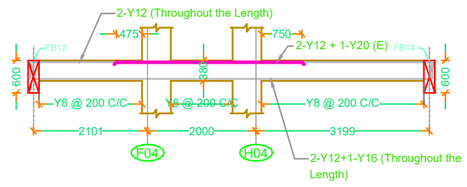
C.S OF FB01 - 200 X 380.



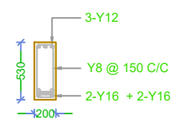
C.S OF FB02 - 200 X 380.



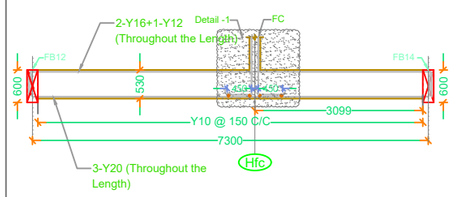
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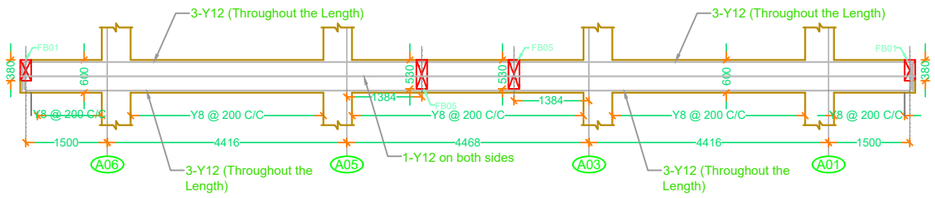
L.S OF BEAM FB04- 200 X 380.



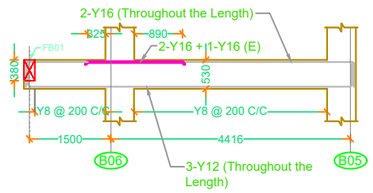
C.S OF FB05 - 200 X 530.



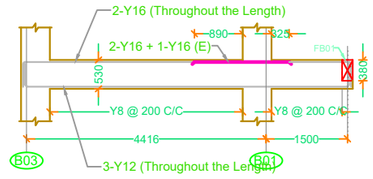
L.S OF BEAM FB06- 200 X 530.



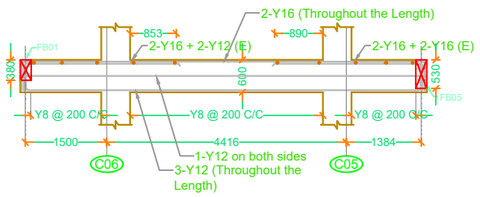
L.S OF BEAM FB07- 200 X 600.



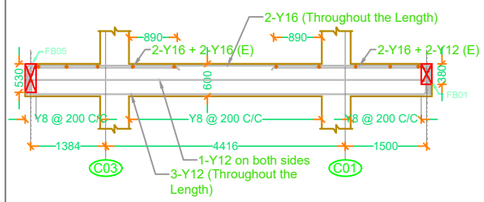
L.S OF BEAM FB08- 200 X 530.



L.S OF BEAM FB09- 200 X 380.

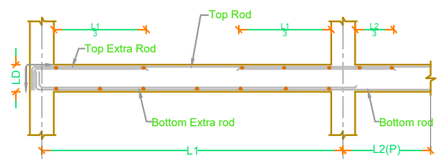


L.S OF BEAM FB10- 200 X 600.

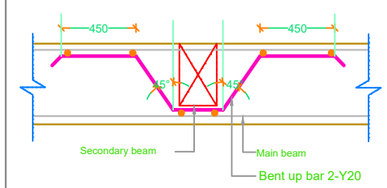


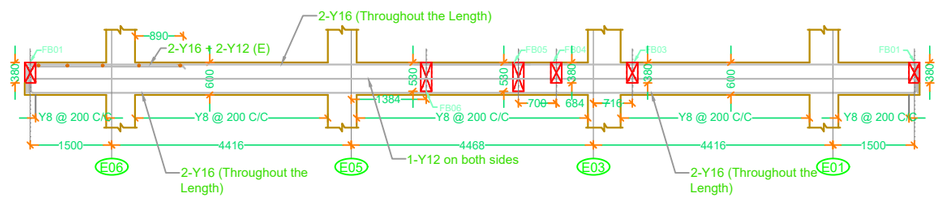
L.S OF BEAM FB11- 200 X 600.

Typical Longitudinal Section

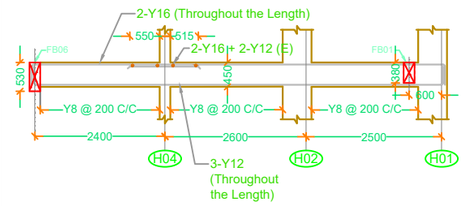


At The Junction Of Main Beam And Secondary Beams The Detail Should Be Followed As Given Below

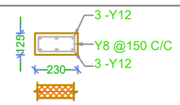




L.S OF BEAM FB12- 200 X 600.

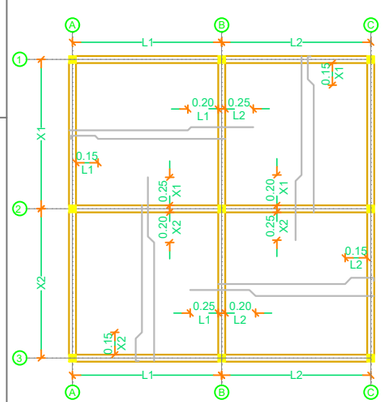


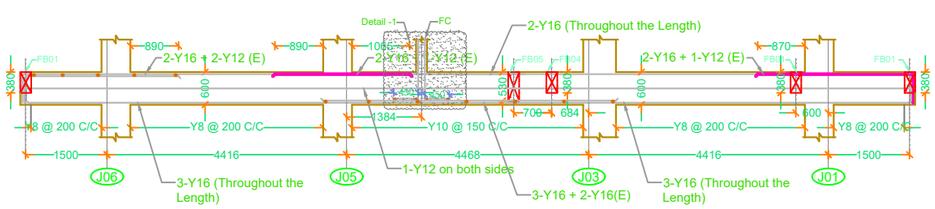
L.S OF BEAM FB13- 200 X 450.



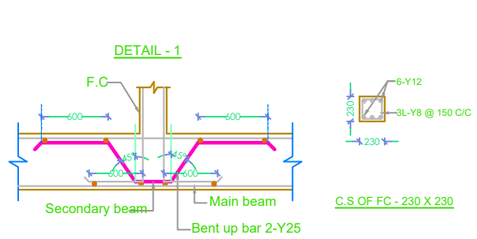
C.S OF CB1 - 230, 330 X 125

Typical Slab Layout





L.S OF BEAM FB14- 200 X 600.



C.S OF FC - 230 X 230

Structural Details of Proposed Residential Apartment Building(Affordable Housing Project) Morais Orchid @ Trichy.

Fifth Floor Roof Beam Details.

Notes :

1. All dimensions are in Millimeter.
2. Concrete grade : M 25.
3. Steel grade : Fe 500.
   Confirming Is 1786 - 1985 To be used
4. Clear cover : Footing -50mm , Column - 32mm,
   Beam -32mm & Slab -20mm.
5. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
6. Depth of foundation should be at least 3.00m from NGL.
7. The centerline column should be coincide with center- line of footing.
8. Top Bottom of plinth beam atleast 150mm below NGL.
9. S.B.C of soil is taken as - 35T / M².As per Geo - foundations & Structures PVT Ltd,Chennai.
10. The foundation and column are designed for + Stilt + Five Floors + Lift Machine Room + Staircase Headroom & Water tank only.
11. This structure analyzed & Designed for all possible dead loads & live loads only.
12. Do not scale this drawing and follow architectural drawing dimensions only.
13. No.changes shall be made without the concern of the structural consultant.
14. The position & size of duct beams, please refer architectural drawing.
15. Spacer rods (Y25) should be placed at 3' intervals.

Drawn by : J . Mohamed Malik
Checked by : V . Aravind.

Drg file : E / Sebco/ Moris city / Foundation Details.
Paper : A2 Scale : N.T.S

Structural Consultant :

TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED

Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar, L.I.C colony,
Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Date	No	Description

Revisions

Architect:

Job No : 1714 / 2024
Dwg No : 13
Date : 18.07.2024.

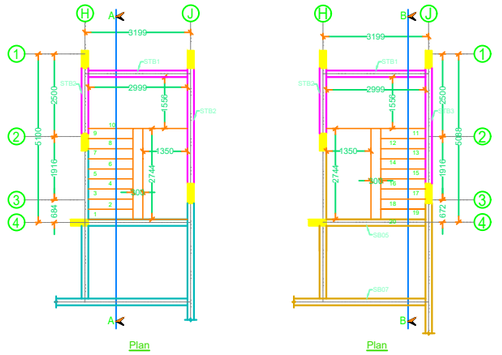
Signature of chief structural consultant:

MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
Reg. No. SE - Gr - II / DTCP / TRICHY / MAY2024 / 009
Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN, M.E.(Structural Engineering).

Structural Details of Proposed Residential Apartment Building(Affordable Housing Project) Morais Orchid @ Trichy.

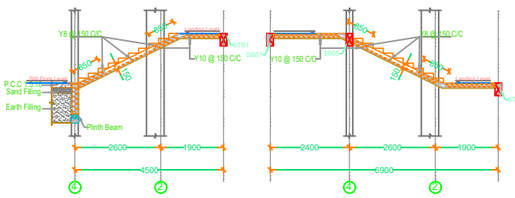
Staircase & Staircase Head Room & Lift machine room Details.

Staircase Details from Stilt Floor to first floor, (Waist Slab Thickness - 150mm)



From Stilt Floor Level to Landing Level

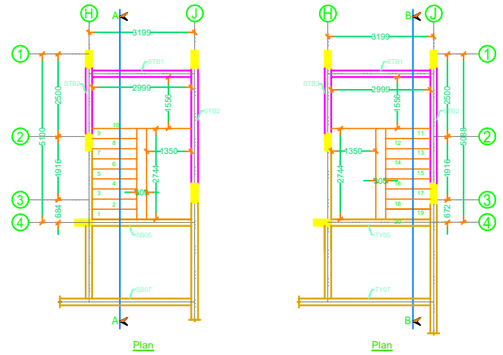
From Landing Level to First Floor Level



Section "A - A"

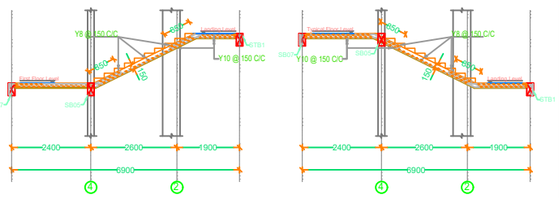
Section "B - B"

Staircase Details from First Floor to Second floor, (Waist Slab Thickness - 150mm)
(This details may be followed for upper floors also)



From First Floor Level to Landing Level

From Landing Level to Typical Floor Level

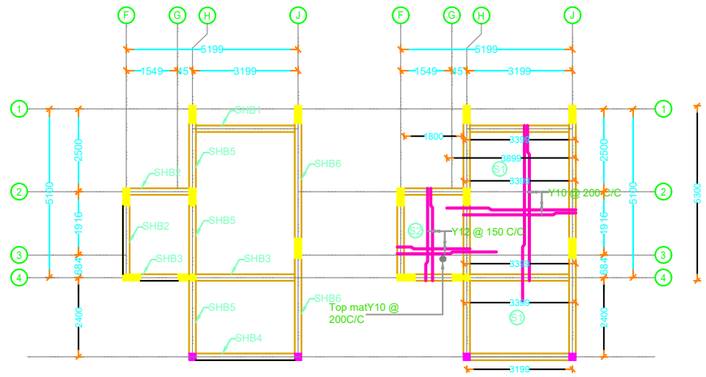


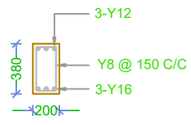
Section "C - C"

Section "D - D"

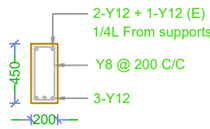
Staircase Head Room Roof Beam & Lift machine Room Layout,

Staircase Head Room Roof Slab & Lift machine Room Layout, Waist Slab Thickness S1-150mm & S2-200mm

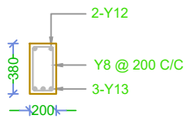




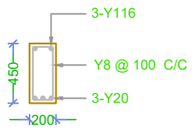
C.S OF STB1 - 200 X 380.



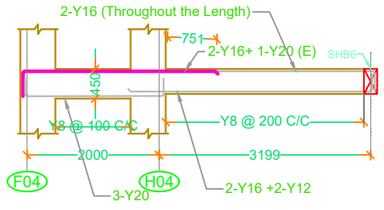
C.S OF STB2 - 200 X 450.



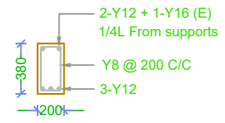
C.S OF SHB1 - 200 X 380.



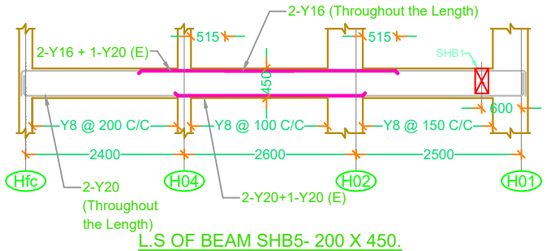
C.S OF SHB2 - 200 X 380.



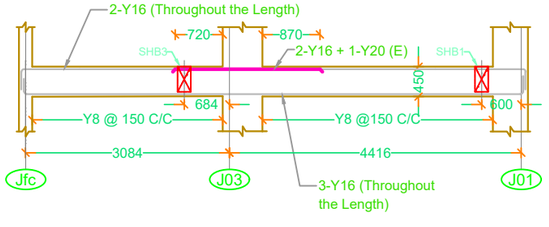
L.S OF BEAM SHB3- 200 X 450 & 200 X 380.



C.S OF SHB4 - 200 X 380.

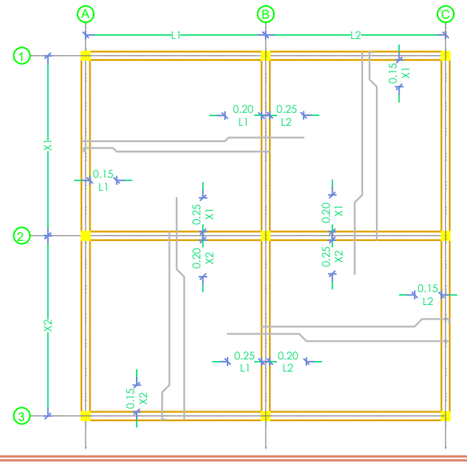


L.S OF BEAM SHB5- 200 X 450.

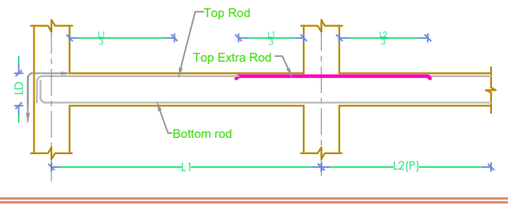


L.S OF BEAM SHB6- 200 X 450.

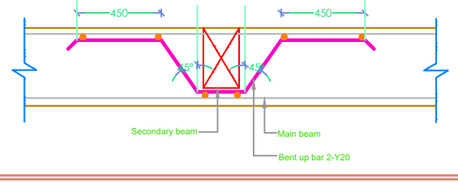
Typical Slab Layout



Typical Longitudinal Section



At The Junction Of Main Beam And Secondary Beams
The Detail Should Be Followed As Given Below



Notes :

1. All dimensions are in Millimeter.
2. Concrete grade : M 25.
3. Steel grade : Fe 500.
   Confirming Is 1786 - 1985 To be used
4. Clear cover : Footing -50mm , Column - 32mm,
   Beam -32mm & Slab -20mm.
5. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
6. Depth of foundation should be at least 3.00m from NGL.
7. The centerline column should be coincide with center- line of footing.
8. Top Bottom of plinth beam atleast 150mm below NGL.
9. S.B.C of soil is taken as - 35T / M².As per Geo - foundations & Structures PVT Ltd,Chennai.
10. The foundation and column are designed for + Stilt + Five Floors + Lift Machine Room + Staircase Headroom & Water tank only.
11. This structure analyzed & Designed for all possible dead loads & live loads only.
12. Do not scale this drawing and follow architectural drawing dimensions only.
13. No.changes shall be made without the concern of the structural consultant.
14. The position & size of duct beams, please refer architectural drawing.
15. Spacer rods (Y25) should be placed at 3' intervals.

Drawn by : R . Andrew Sahaya Rani.
Checked by : V . Aravind.

Drg file : E / Sebco/ Moris Inn / Staircase & Staircase Head.
Paper : A2
Scale : N.T.S

Structural Consultant :

TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED
Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar, L.I.C colony,
Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Date	No	Description

Revisions

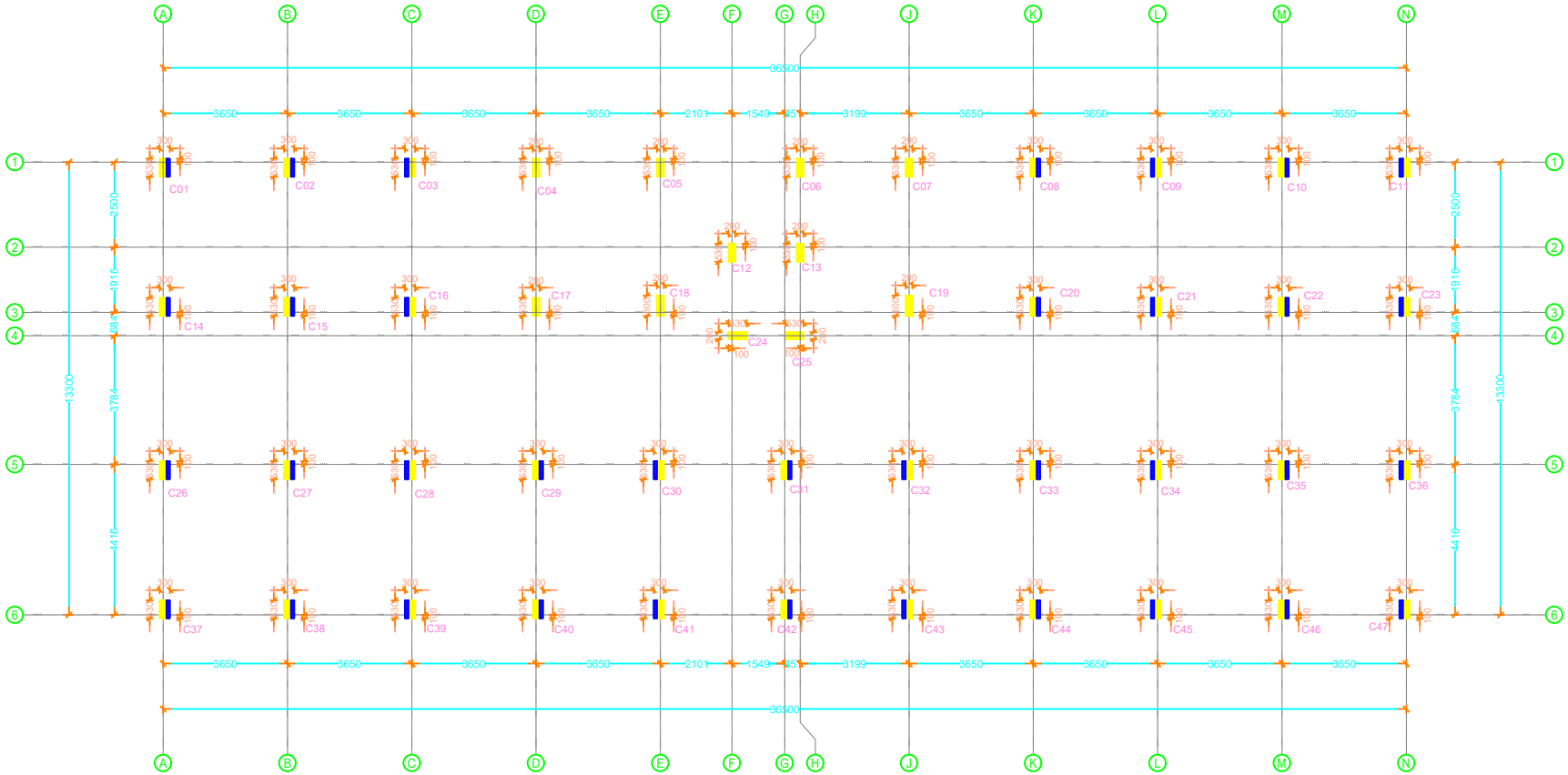
Architect:

Job No : 1714 / 2024
Dwg No : 14
Date : 30.08.2024.

Signature of chief structural consultant:

MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
Reg. No. SE - Gr -II / DTCP / TRICHY / MAY2024 / 009
Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN, M.E (Structural Engineering).

Column & Grid Layout



— Regular Column

— Termination Column @ Stilt Floor Roof

Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Column & Grid Layout

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
5. Clear cover : Footing - 50mm , Column - 32mm,
6. Beam - 32mm & Slab - 20mm.
7. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
8. Depth of foundation Should be at least 3.00m from natural ground level .
9. The centerline column should be coincide with center line of footing.
10. The bottom of plinth beam at least 0.15m below the natural ground level.
11. S.B.C of soil is taken as - 350 KN / M². (As per soil investigation report of geo matrix consultancy for material testing,madurai) .
12. The Structural members are designed for Stilt + Five Floors + Staircase Headroom + Water Tank & Lift Machine Room Only.
13. This structure analyzed & Designed for all possible dead loads & live loads only.
14. Do not scale this drawing and follow architectural drawing dimensions only.
15. No.changes shall be made without the concern of the structural consultant.
16. The position & size of duct beams, please refer architectural drawing.
17. Spacer rods (Y25) should be placed at 0.91 intervals.

Date	No	Description
		Revisions

Drawn by : J. Mohamed Malik.
Checked by : N . Aswin Nambi.

Drg file : E / Sebco/ Moris Inn / Column grid Layout .
Paper : A2
Scale : N.T.S

Architect:

Date : 18.07.2024
Job No : 1422 (B) / 2021
Dwg No : 01

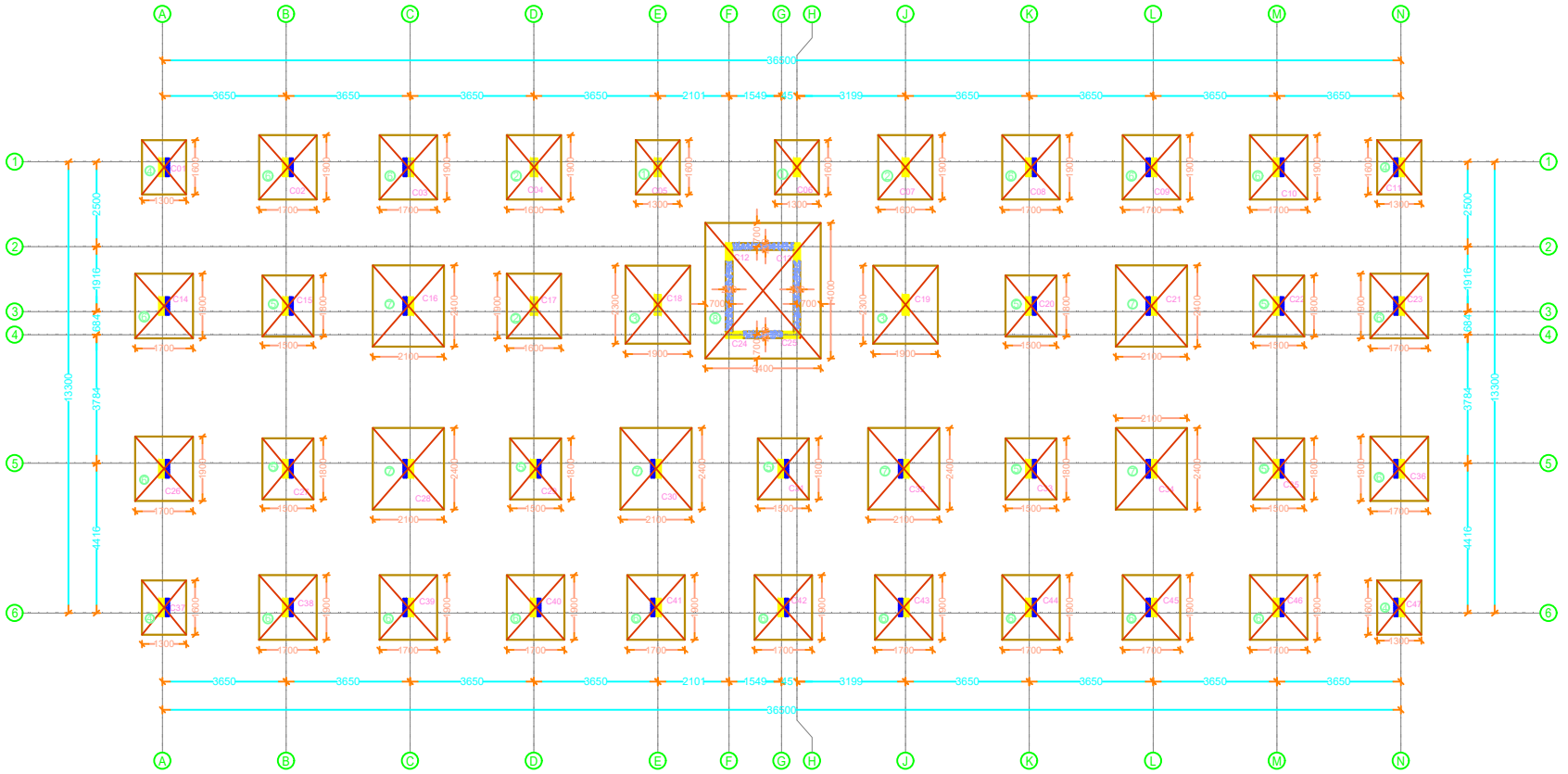
Structural Consultant :

TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED
Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
L.I.C colony,Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Signature of chief structural consultant:

MIRUTHUN GANESAN M.E., (Structures)
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Trichy RG Engineering Excellence Pvt. Ltd.
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LIC Colony, Trichy - 620 021.

MIRUTHUN GANESAN, M.E (Structural Engineering).



Regular Column

Terrace/plan Column @ Slab Floor Roof

Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Foundation Layout

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
5. Clear cover : Footing - 50mm , Column - 32mm,
6. Beam - 32mm & Slab - 20mm.
7. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
8. Depth of foundation Should be at least 3.00m from natural ground level .
9. The centerline column should be coincide with center line of footing.
10. The bottom of plinth beam at least 0.15m below the natural ground level.
11. S.B.C of soil is taken as - 350 KN / M². (As per soil investigation report of geo matrix consultancy for material testing,madurai) .
12. The Structural members are designed for Stilt + Five Floors + Staircase Headroom + Water Tank & Lift Machine Room Only.
13. This structure analyzed & Designed for all possible dead loads & live loads only.
14. Do not scale this drawing and follow architectural drawing dimensions only.
15. No.changes shall be made without the concern of the structural consultant.
16. The position & size of duct beams, please refer architectural drawing.
17. Spacer rods (Y25) should be placed at 0.91 intervals.

Date	No	Description
		Revisions

Drawn by : J . Mohamed Malik.
Checked by : V . Aravind.

Drg file : E/ Sebco/ Moris Inn / Foundation Layout .
Paper : A2
Scale : N.T.S

Architect:

Date : 18.07.2021
Job No : 1422 (B) / 2021
Dwg No : 02

Structural Consultant :
TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED
Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
L.I.C colony,Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Signature of chief structural consultant:

MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
Reg. No. SE - Gr -II / DTCP / TRICHY / MAY2024 / 009
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Plot No. 64, Nandavanam Street,
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MIRUTHUN GANESAN, M.E (Structural Engineering).

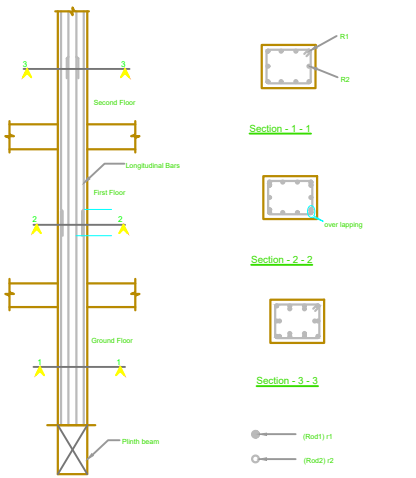
Column Details

Type	Column no	Up to Stilt Floor Roof					Up to Stilt Floor Roof to Second Floor Roof					Above Second Floor Roof				
		Size	Cross sec	Ties Profile	Main	Lateral ties	Size	Cross sec	Ties Profile	Main	Lateral ties	Size	Cross sec	Ties Profile	Main	Lateral ties
1.	C05, C06, C12, C13, C17 & C24. (6 nos.)	200 X 530			10-Y12	Y8 @ 8" C/C	200 X 530			10-Y12	Y8 @ 8" C/C	200 X 530			10-Y12	Y8 @ 8" C/C
2.	C25. (1 no.)	200 X 530			4-Y16 + 6-Y12	Y8 @ 8" C/C	200 X 530			10-Y12	Y8 @ 8" C/C	200 X 530			10-Y12	Y8 @ 8" C/C
3.	C04 & C07. (2 nos.)	200 X 530			8-Y16 + 2-Y12	Y8 @ 8" C/C	200 X 530			6-Y16 + 4-Y12	Y8 @ 8" C/C	200 X 530			4-Y16 + 6-Y12	Y8 @ 8" C/C
4.	C18. (1 no.)	200 X 600			8-Y16 + 2-Y12	Y8 @ 8" C/C	200 X 600			6-Y16 + 4-Y12	Y8 @ 8" C/C	200 X 600			4-Y16 + 6-Y12	Y8 @ 8" C/C
5.	C19. (1 no.)	200 X 600			4-Y25 + 6-Y20	Y8 @ 8" C/C	200 X 600			10-Y20	Y8 @ 8" C/C	200 X 600			6-Y20 + 4-Y16	Y8 @ 8" C/C
6.	C01, C02, C03, C08, C09, C10, C11, C14, C15, C20, C22, C23, C26, C27, C29, C31, C33, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46 & C47. (30 nos.)	300 X 530			12-Y12	Y8 @ 8" C/C	200 X 530			10-Y12	Y8 @ 8" C/C	200 X 530			10-Y12	Y8 @ 8" C/C
7.	C30. (1 no.)	300 X 530			4-Y20 + 8-Y16	Y8 @ 8" C/C	200 X 530			4-Y20 + 6-Y16	Y8 @ 8" C/C	200 X 530			10-Y16	Y8 @ 8" C/C
8.	C32. (1 no.)	300 X 530			8-Y20 + 4-Y16	Y8 @ 8" C/C	200 X 530			8-Y20 + 2-Y16	Y8 @ 8" C/C	200 X 530			4-Y20 + 6-Y16	Y8 @ 8" C/C
9.	C16, C21, C28 & C34. (4 nos.)	300 X 530			4-Y25 + 8-Y20	Y8 @ 8" C/C	200 X 530			4-Y25 + 6-Y20	Y8 @ 8" C/C	200 X 530			10-Y20	Y8 @ 8" C/C

- Larger dia rod

- Smaller dia rod

Overlapping of column reinforcement details



Column reinforcement termination details

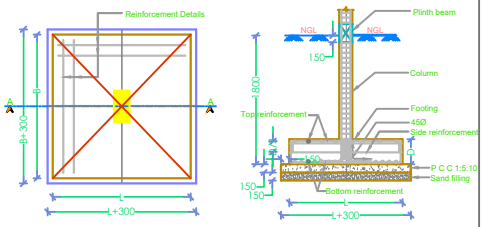
1. Reinforcements for all outer column should be raised up to parapet top level.

2. Reinforcements for all inner columns should be bent and monolithically cast with terrace slab.

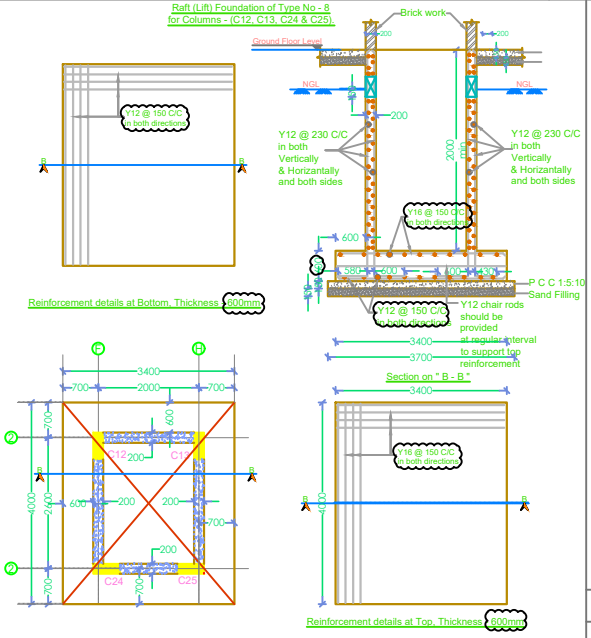
Footing Details

Type	Column no	Mat size L X B	D	Reinforcement Details		Side Face Reinforcement Details
				Bottom	Top	
01.	C05 & C06. (2 nos.)	1600 X 1300	450	Y10 @ 150 mm C/C in both directions	-	1-Y8 on all round
02.	C04, C07 & C17. (3 nos.)	1900 X 1600	575	Y10 @ 100 mm C/C in both directions	-	2-Y8 on all round
03.	C18 & C19. (2 nos.)	2300 X 1900	675	Y10 @ 100 mm C/C in both directions	Y10 @ 200 mm C/C in both directions	2-Y8 on all round
04.	C01, C11, C37 & C47. (4 nos.)	1600 X 1300	425	Y10 @ 175 mm C/C in both directions	-	1-Y8 on all round
05.	C15, C20, C22, C27, C29, C31, C33 & C35. (8 nos.)	1800 X 1500	500	Y10 @ 125 mm C/C in both directions	-	2-Y8 on all round
06.	C02, C03, C08, C09, C10, C14 C23, C26, C36, C38, C39, C40, C41, C42, C43, C44, C45 & C46. (18 nos.)	1900 X 1700	575	Y10 @ 125 mm C/C in both directions	-	2-Y8 on all round
07.	C16, C21, C28, C30, C32 & C34. (6 nos.)	2400 X 2100	700	Y12 @ 125 mm C/C in both directions	Y10 @ 200 mm C/C in both directions	2-Y8 on all round
08.	C12, C13, C24 & C25. (4 nos.)	Lift Details Separate				

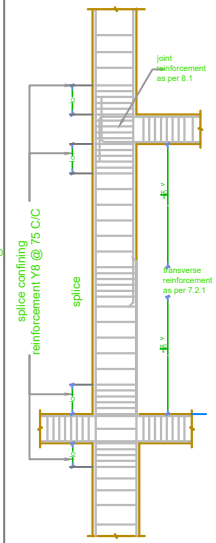
Typical Column Footing Details.

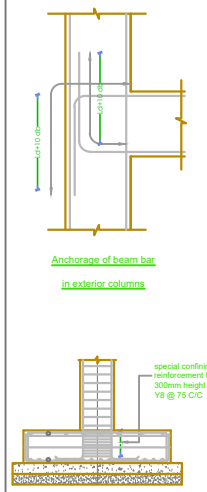


Raft (Lift) Foundation of Type No - 8 for Columns - (C12, C13, C24 & C25).



Column and Beam joint detailing





Ld = Development length	Db = Dia of bar	Hc = Height of column.
lo = Length of member over which special confining reinforcement is to be Provided (450mm)		

Structural Details of Proposed Residential Apartment Building(Affordable Housing Project) Morais Orchid @ Trichy.

Foundation Details.

Notes :

1. All dimensions are in Millimeter.
2. Concrete grade : M 25.
3. Steel grade : Fe 500.
   Confirming Is 1786 - 1985 To be used
4. Clear cover : Footing -50mm , Column - 32mm,
   Beam -32mm & Slab -20mm.
5. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
6. Depth of foundation should be at least 3.00m from NGL.
7. The centerline column should be coincide with center- line of footing.
8. Top Bottom of plinth beam atleast 150mm below NGL.
9. S.B.C of soil is taken as - 35T / M². As per Geo - foundations & Structures PVT Ltd,Chennai.
10. The foundation and column are designed for + Stilt + Five Floors + Lift Machine Room + Staircase Headroom & Water tank only.
11. This structure analyzed & Designed for all possible dead loads & live loads only.
12. Do not scale this drawing and follow architectural drawing dimensions only.
13. No.changes shall be made without the concern of the structural consultant.
14. The position & size of duct beams, please refer architectural drawing.
15. Spacer rods (Y25) should be placed at 3' intervals.

Drawn by : J . Mohamed Malik
Checked by : V . Aravind.

Drg file : E / Sebco/ Moris Inn / Foundation Details.
Paper : A2 Scale : N.T.S

Structural Consultant :

TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED
Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar, L.I.C colony,
Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Date	No	Description

Revisions

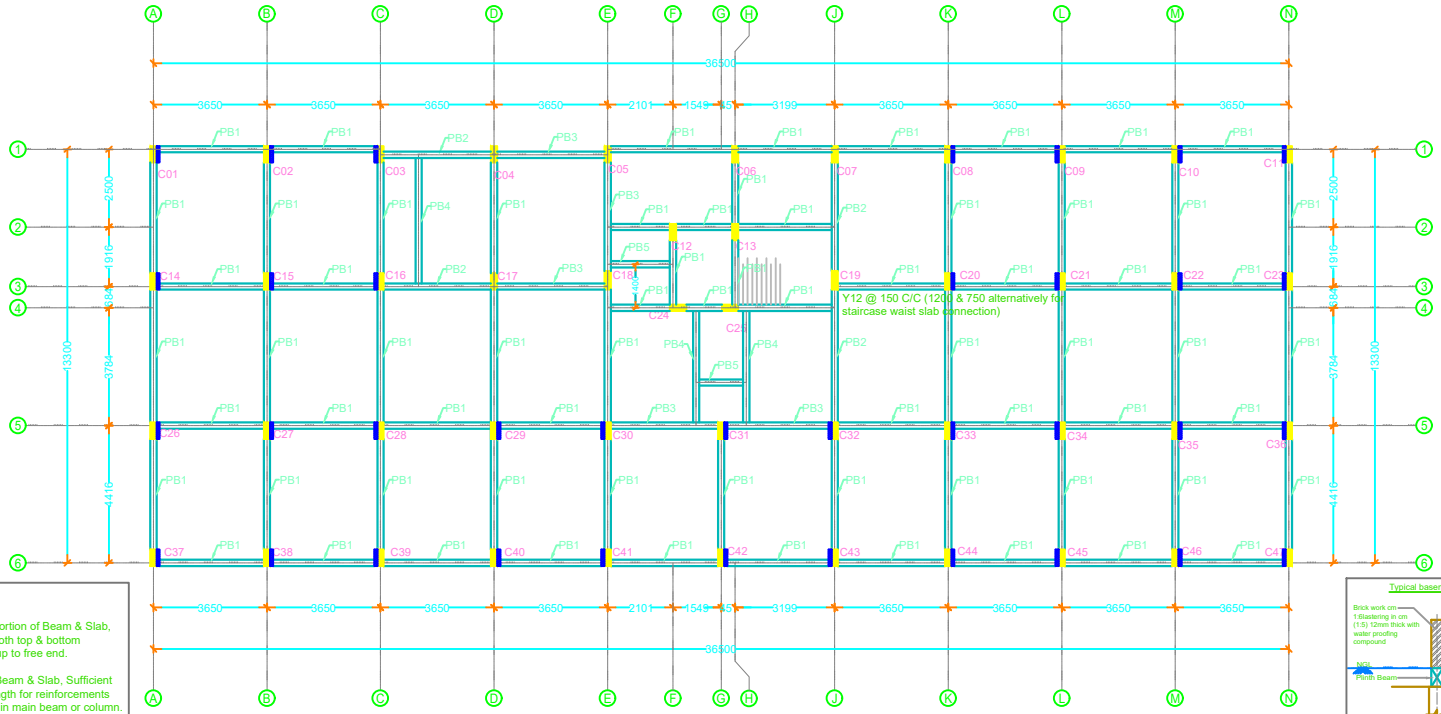
Architect:

Job No : 1714 / 2024
Dwg No : 03
Date : 18.07.2024.

Signature of chief structural consultant:

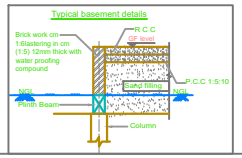
MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - TI
Reg. No. SE - Gr - II / DTCP / TRICHY / MAY2024 / 009
Trichy RG Engineering Excellence Pvt. Ltd.
Plot No. 64, Nandavanam Street,
LIC Colony, Trichy - 620 021.
MIRUTHUN GANESAN M.E. (Structural Engineering).

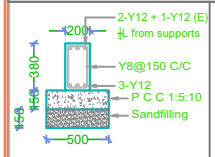
Plinth Beam Layout



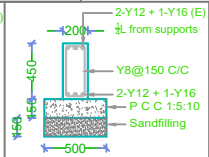
Important Note :

1. For Cantilever Portion of Beam & Slab, Please extend both top & bottom reinforcements up to free end.
2. For Cantilever Beam & Slab, Sufficient development length for reinforcements should be given in main beam or column.

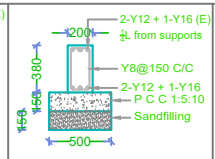




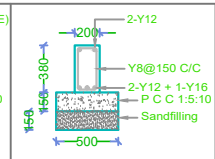
C.S OF PB01 - 200 X 380.



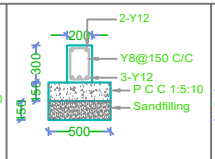
C.S OF PB02 - 200 X 450.



C.S OF PB03 - 200 X 380.

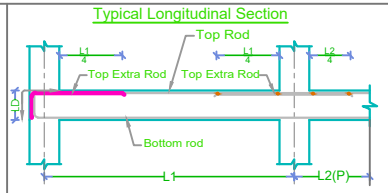


C.S OF PB04 - 200 X 380.

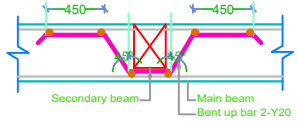


C.S OF PB05 - 200 X 300.

Typical Longitudinal Section



At The Junction Of Main Beam And Secondary Beams The Detail Should Be Followed As Given Below



Structural Details of Proposed Residential Apartment Building (Affordable Housing Project) Morais Orchid @ Trichy.

Plinth Beam Details

Notes :

1. All dimensions are in Meter .
2. Concrete grade : M 25
3. Steel grade : Fe 500.
4. Confirming Is 1786 - 1985 To be used ,
5. Clear cover : Footing - 50mm , Column - 32mm,
6. Beam - 32mm & Slab - 20mm.
7. Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 56 Ø
8. Depth of foundation Should be at least 3.70m from natural ground level .
9. The centerline column should be coincide with center line of footing.
10. The bottom of plinth beam at least 0.15m below the natural ground level.
11. S.B.C of soil is taken as - 350 KN / M². (As per soil investigation report of geo matrix consultancy for material testing,madurai) .
12. The Structural members are designed for Stilt + Five Floors + Staircase Headroom + Water Tank & Lift Machine Room Only.
13. This structure analyzed & Designed for all possible dead loads & live loads only.
14. Do not scale this drawing and follow architectural drawing dimensions only.
15. No.changes shall be made without the concern of the structural consultant.
16. The position & size of duct beams, please refer architectural drawing.
17. Spacer rods (Y25) should be placed at 0.91 intervals.

Date	No	Description
		Revisions

Drawn by : M . Hari Prasath.
Checked by : V . Aravind.

Drg file : E / Sebco/ Moris Inn / Plinth Beam Details.
Paper : A2
Scale : N.T.S

Architect:

Date : 18.07.2021
Job No : 1422 (B) / 2021
Dwg No : 04

Structural Consultant :

TRICHY RG ENGINEERING EXCELLENCE PRIVATE LIMITED

Structural Engineering Consultancy Centre
No- 64, Nandavanam street, Indra Nagar
L.I.C colony,Trichy - 21, Phone: 0431-4024691.
Email - ganesan_struct@rediffmail.com

Signature of chief structural consultant:

MIRUTHUN GANESAN M.E., (Structures)
Structural Engineer Grade - II
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Zoning & Land Use Analysis

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Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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